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Group	Number of Mice	Dosage	Survivors (days)	Increased Life Span (ILS)
I	10	0.002 ml fetuin	1 (31)	29%
II	10	0.02 ml fetuin	1 (29)	17.2 %
III	10	0.2 ml fetuin	8 (58)	141 %
IV	10	0.5 ml saline	0 (24)	---

Fig. 1

Type of Fetuin	Amount Required to Reach LD ₅₀
Fetuin + Zn	130 μ M
Supercharged Zinc Fetuin	14.3 μ M

Fig. 2

Type of Fetuin	Amount Required to Reach LD ₅₀
Fetuin + Zn	60 μ M
Supercharged Zinc Fetuin	19.6 μ M

Fig. 3

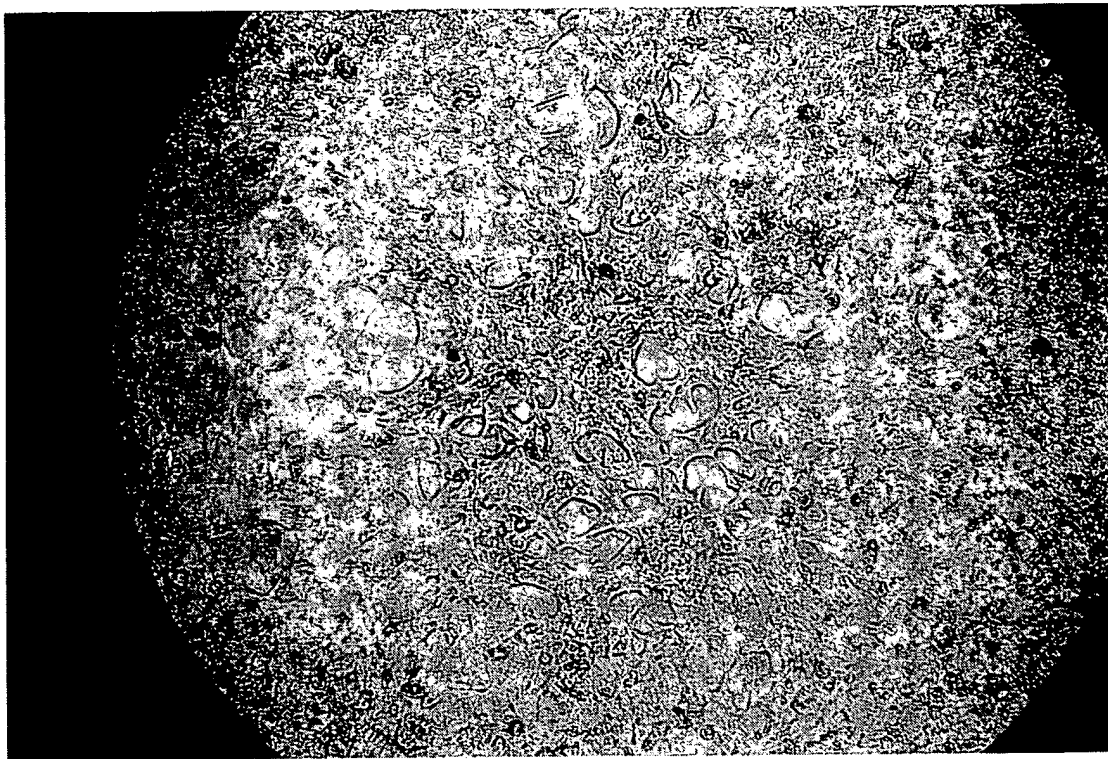


FIG. 4

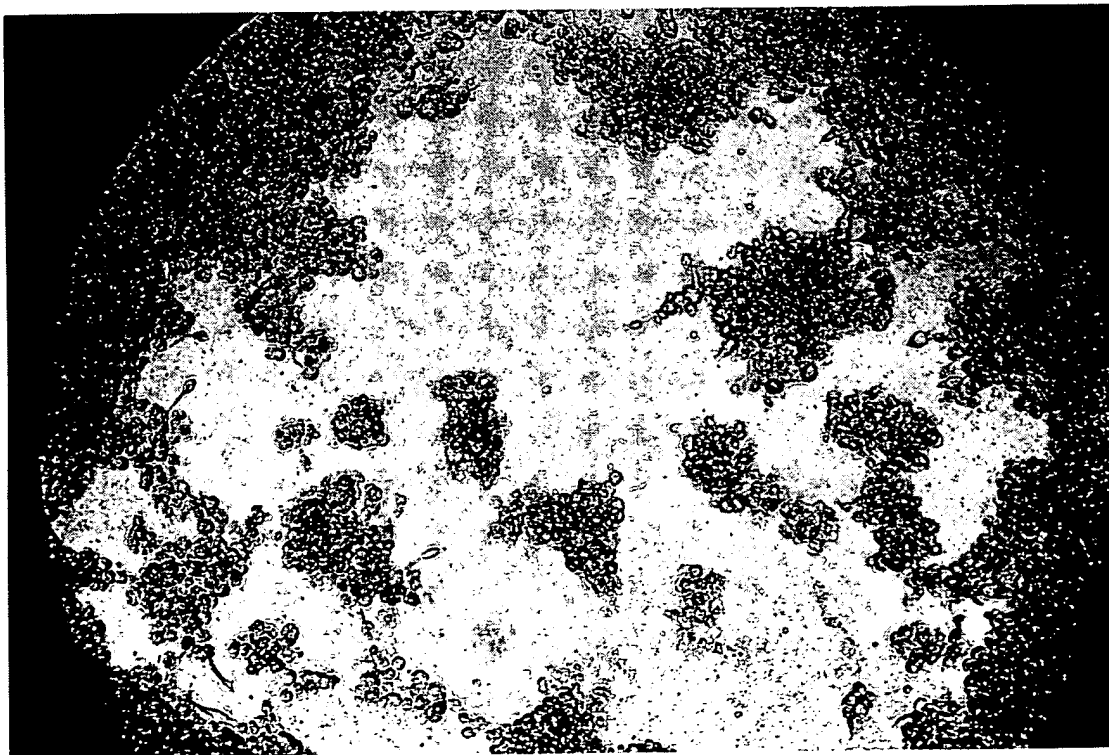


FIG. 5

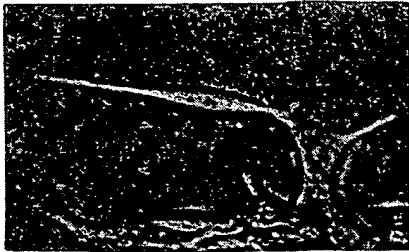


FIG. 6

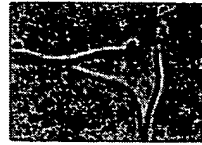


FIG. 9



FIG. 7



FIG. 10

FIG. 8

<u>Experiment</u>	<u>Sample</u>	<u>Apoptosis (%)</u>
1	Filtrate (10 μ l)	92%
	Filtrate (10 μ l) + proteinase K	50%
2	Filtrate (5 μ l)	35%
	Filtrate (5 μ l) + proteinase K	0%
3	Filtrate (10 μ l)	75%
	Filtrate (10 μ l) + proteinase K	0%

FIG. 13

<u>Fetuin</u>	<u>LD₅₀</u>
Zinc Charged Fetuin (full length)	LD ₅₀ = 3-10 μ M
Fetuin Fragment (amino acid no. 300-309)	LD ₅₀ = 0.3-0.4 μ M
Fetuin Fragment (amino acid no. 300-307)	LD ₅₀ >> 1 mM
Fetuin Fragment (amino acid no. 310-317)	LD ₅₀ >> 1 mM

FIG. 11

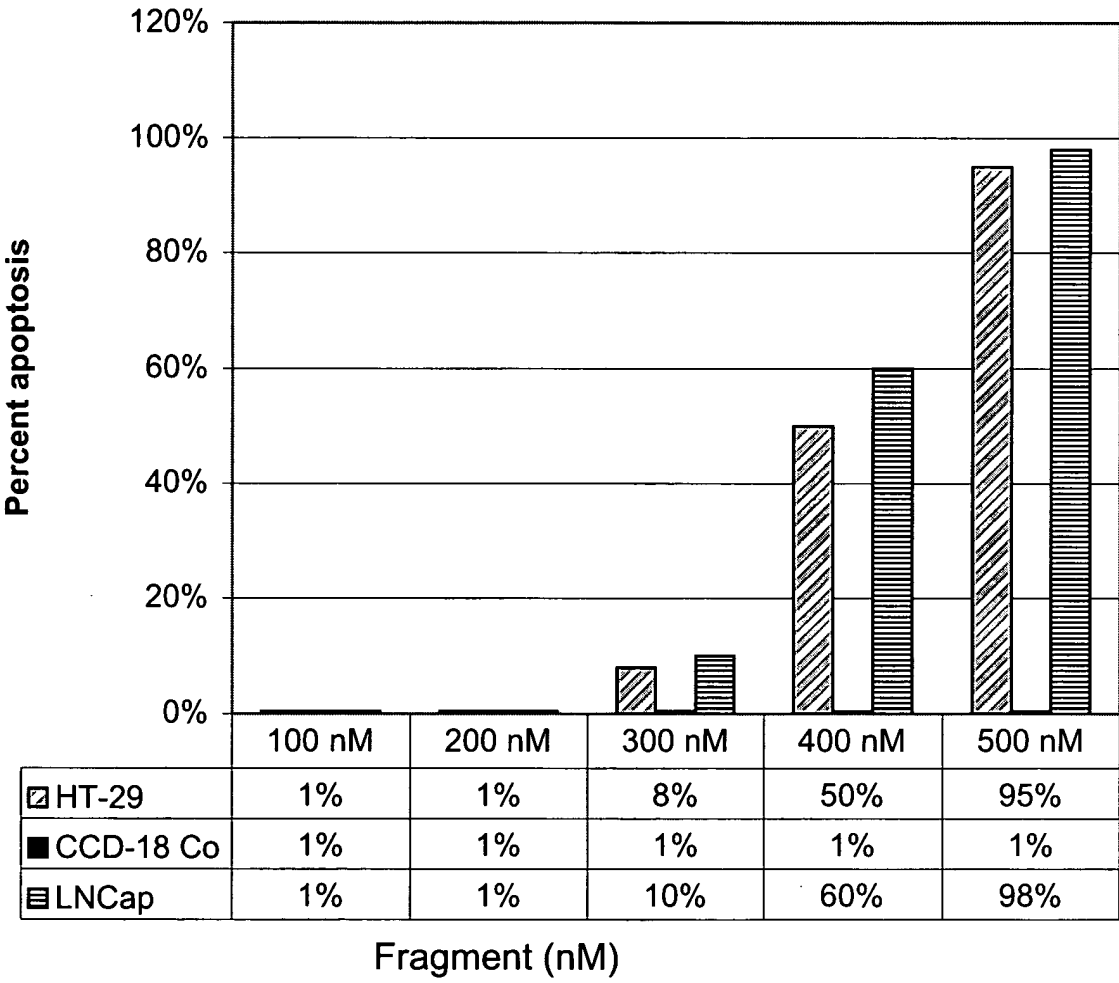
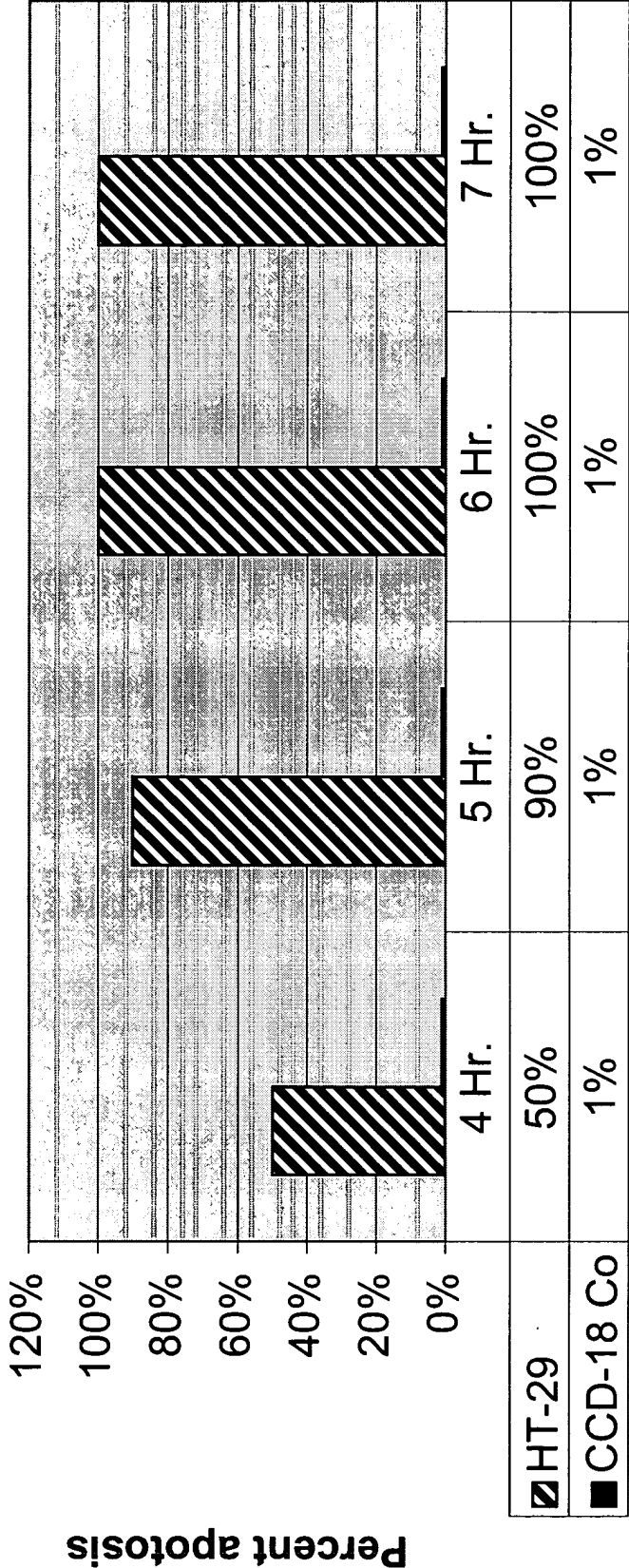
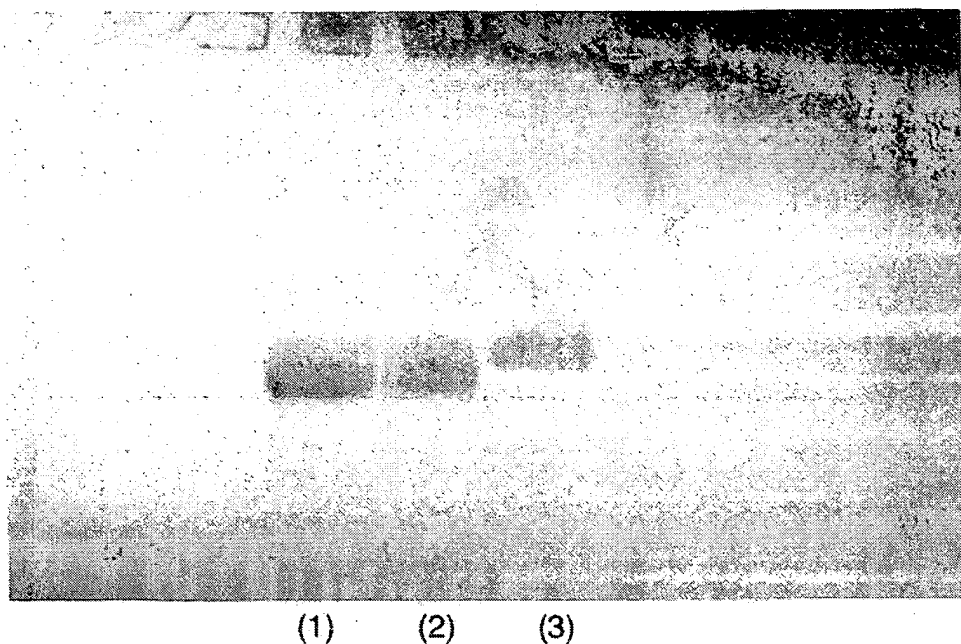


FIG. 12





(1) Alpha 1 acid- glycoprotein (Sigma)

(2) Sample

(3) Alpha 2 HS-glycoprotein (Sigma)

Figure 14



Figure 15

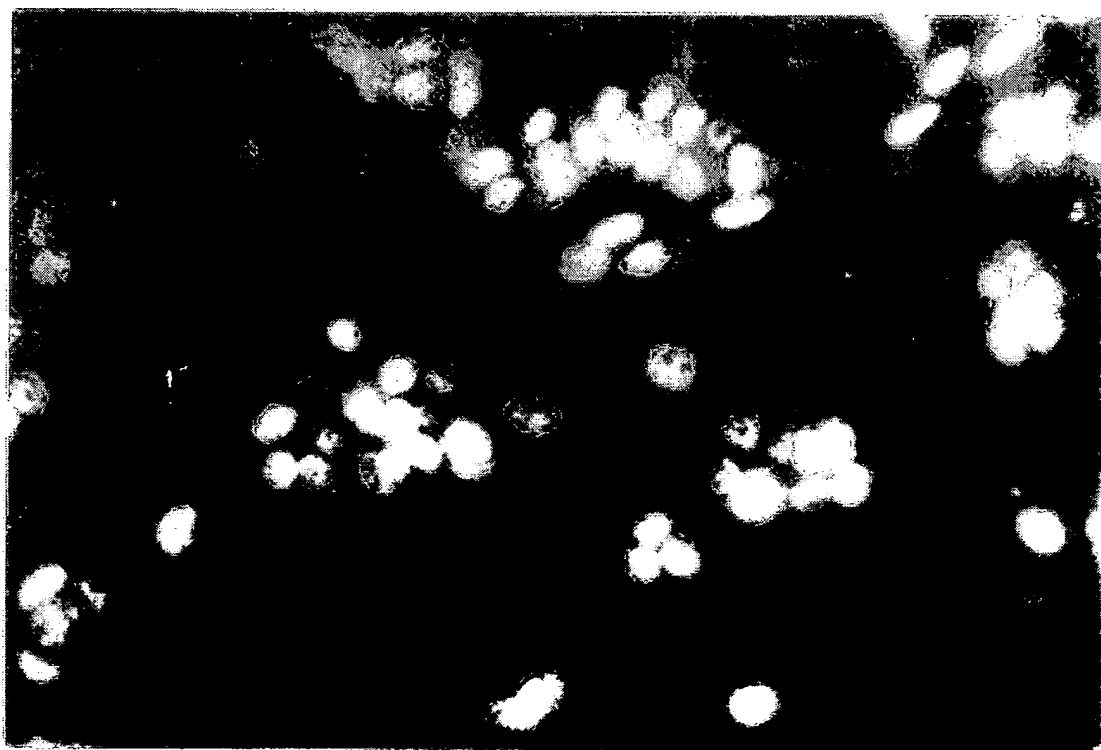


Figure 16

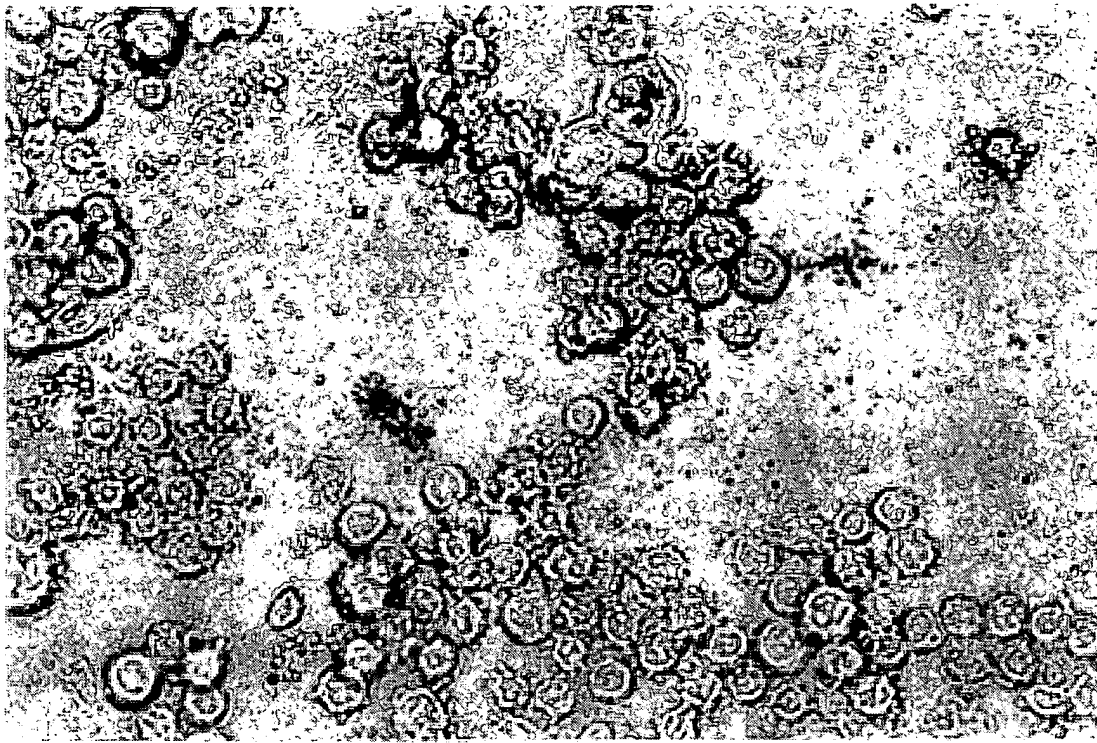


Figure 17



Figure 18

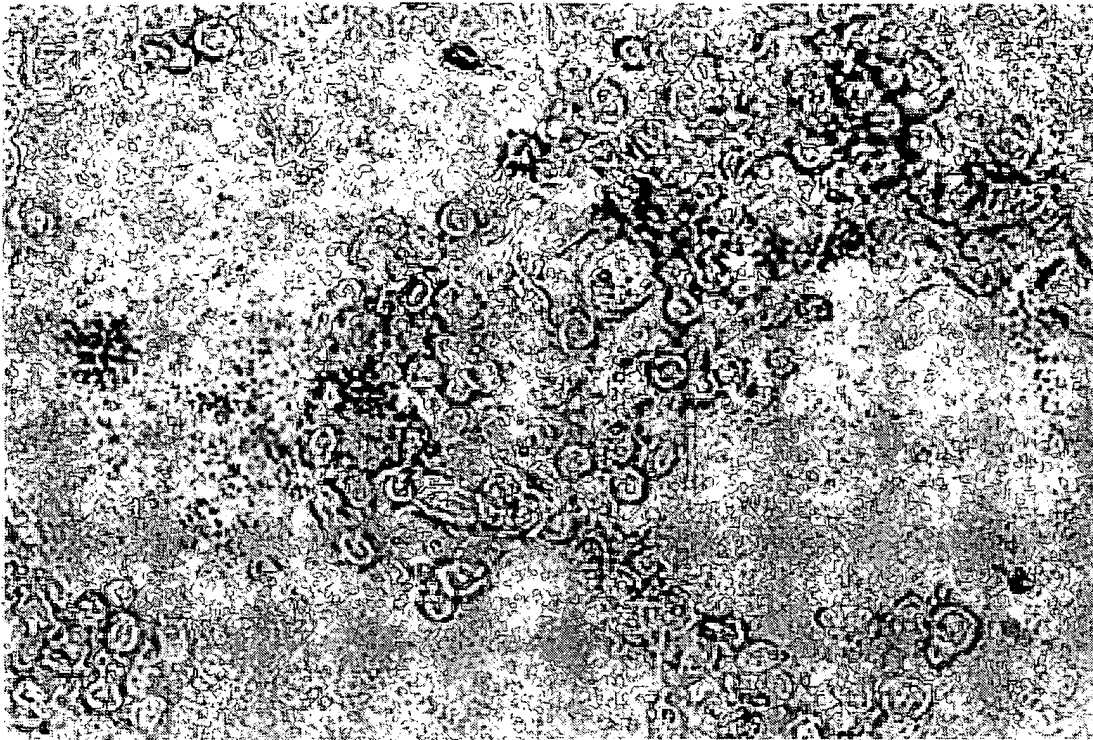


Figure 19

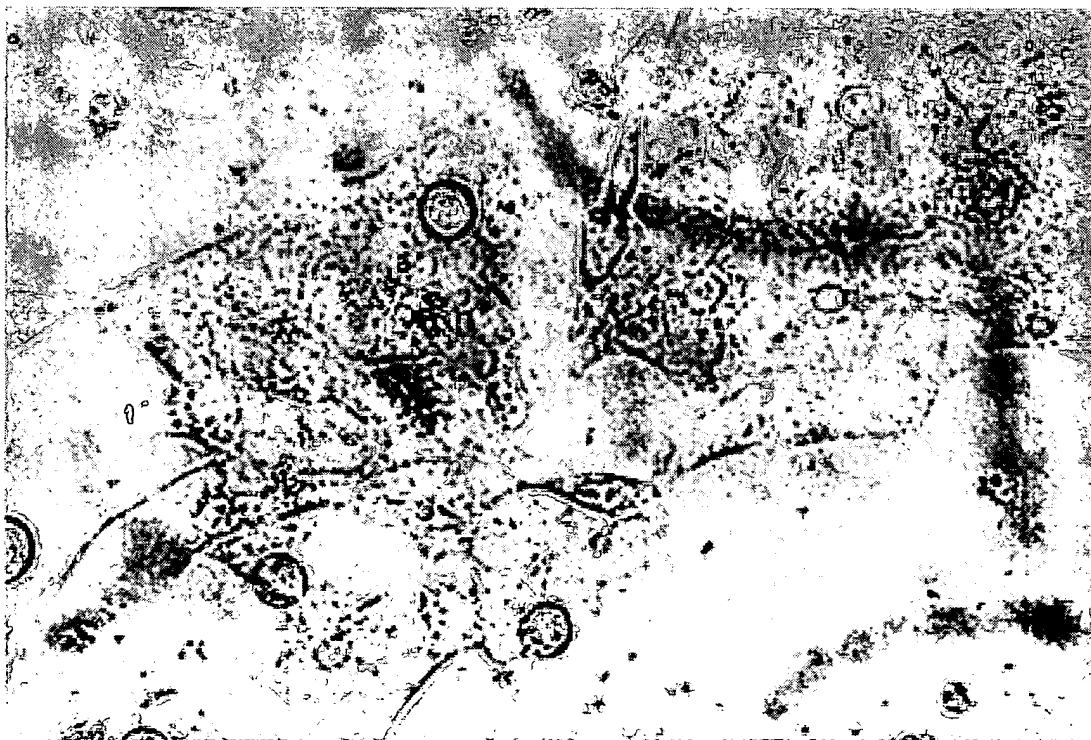


Figure 20

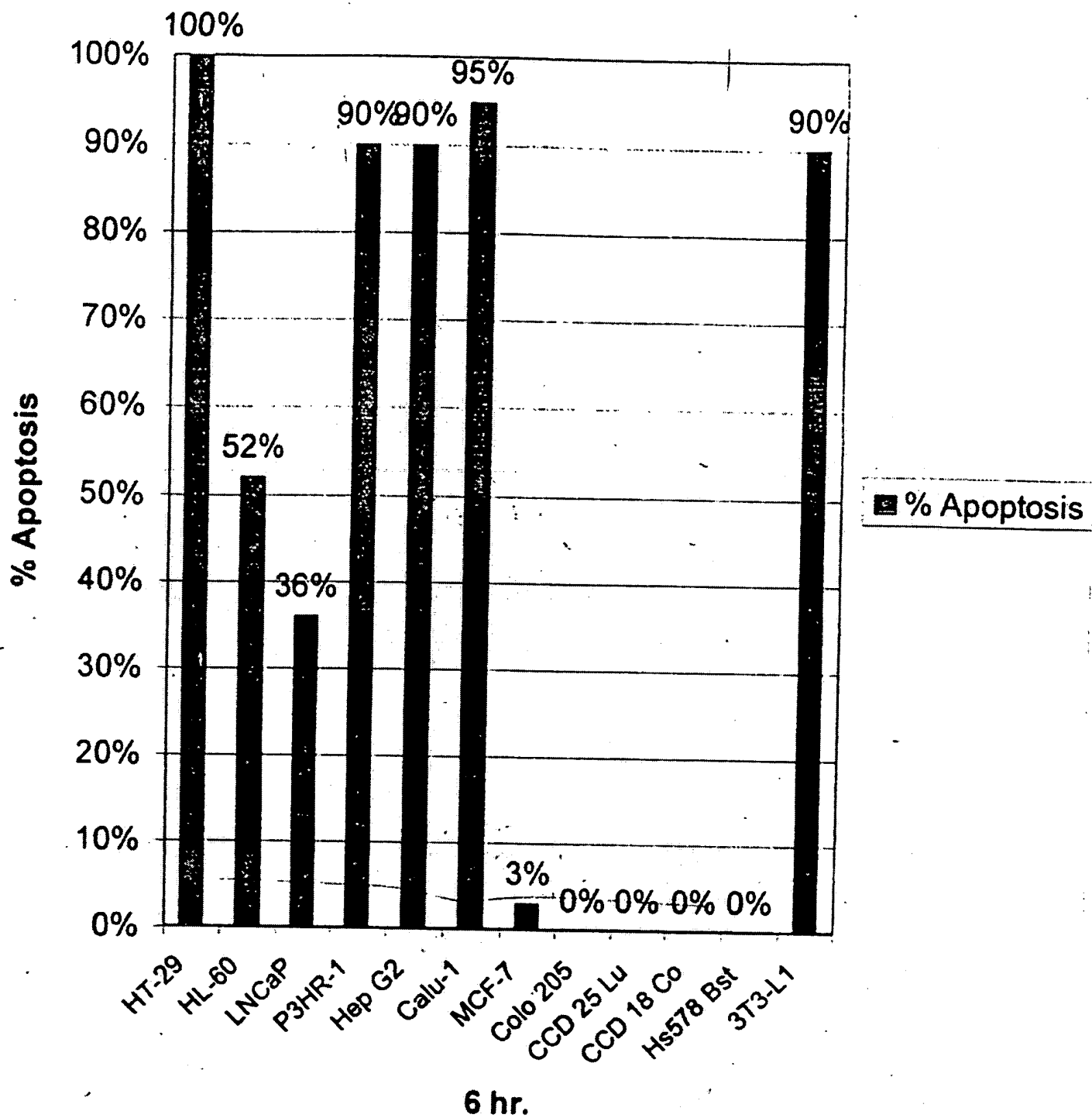


Figure 21

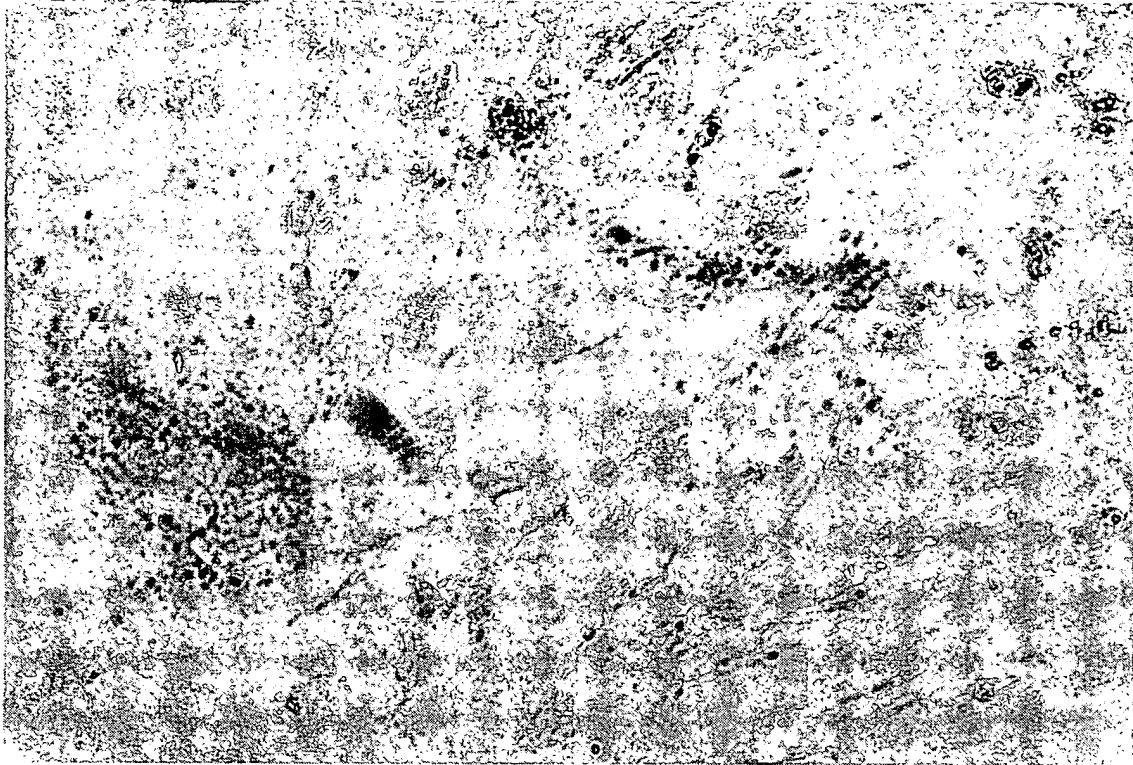


Fig. 22

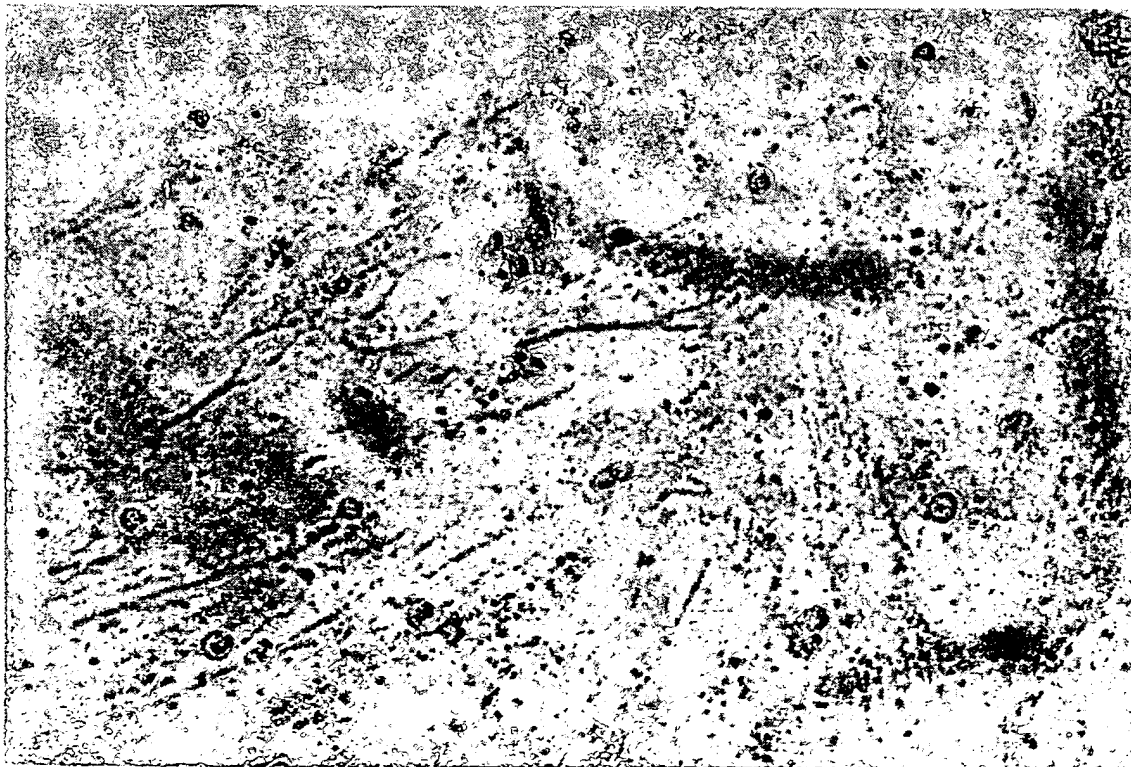


Fig. 23

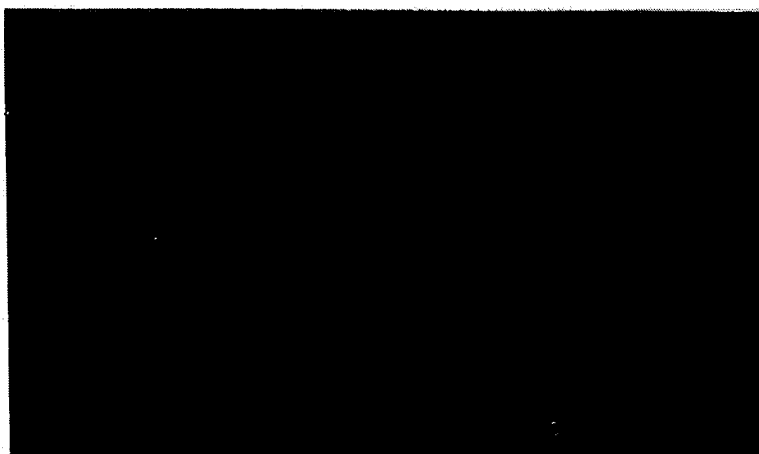


Figure 24

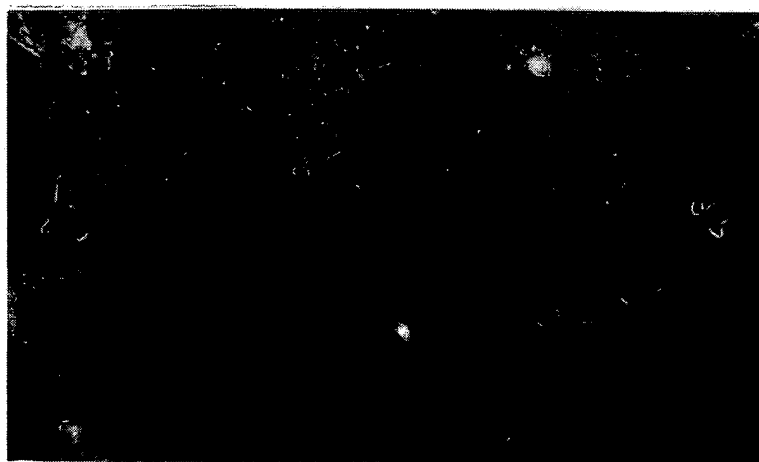


Figure 25

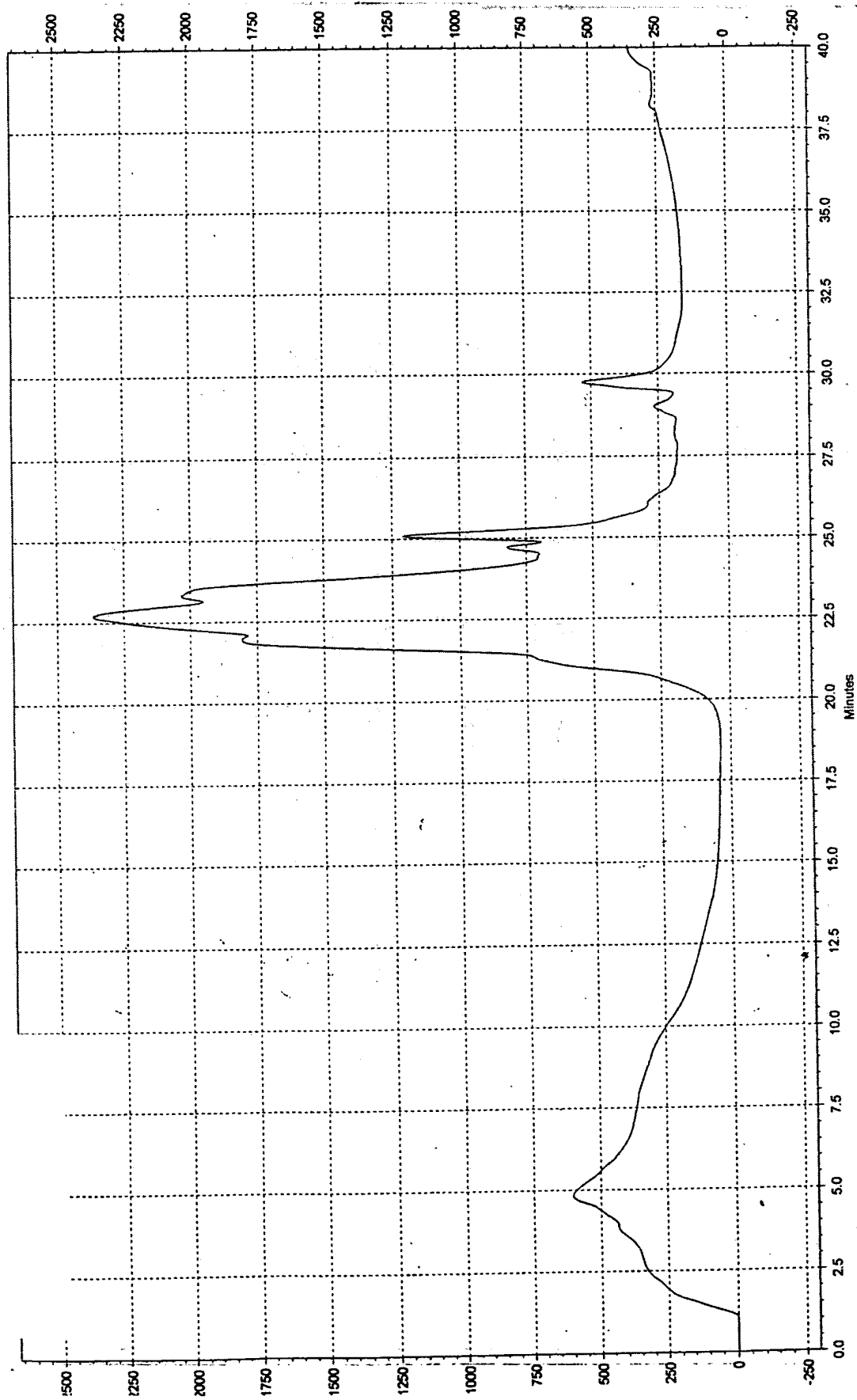


Figure 26

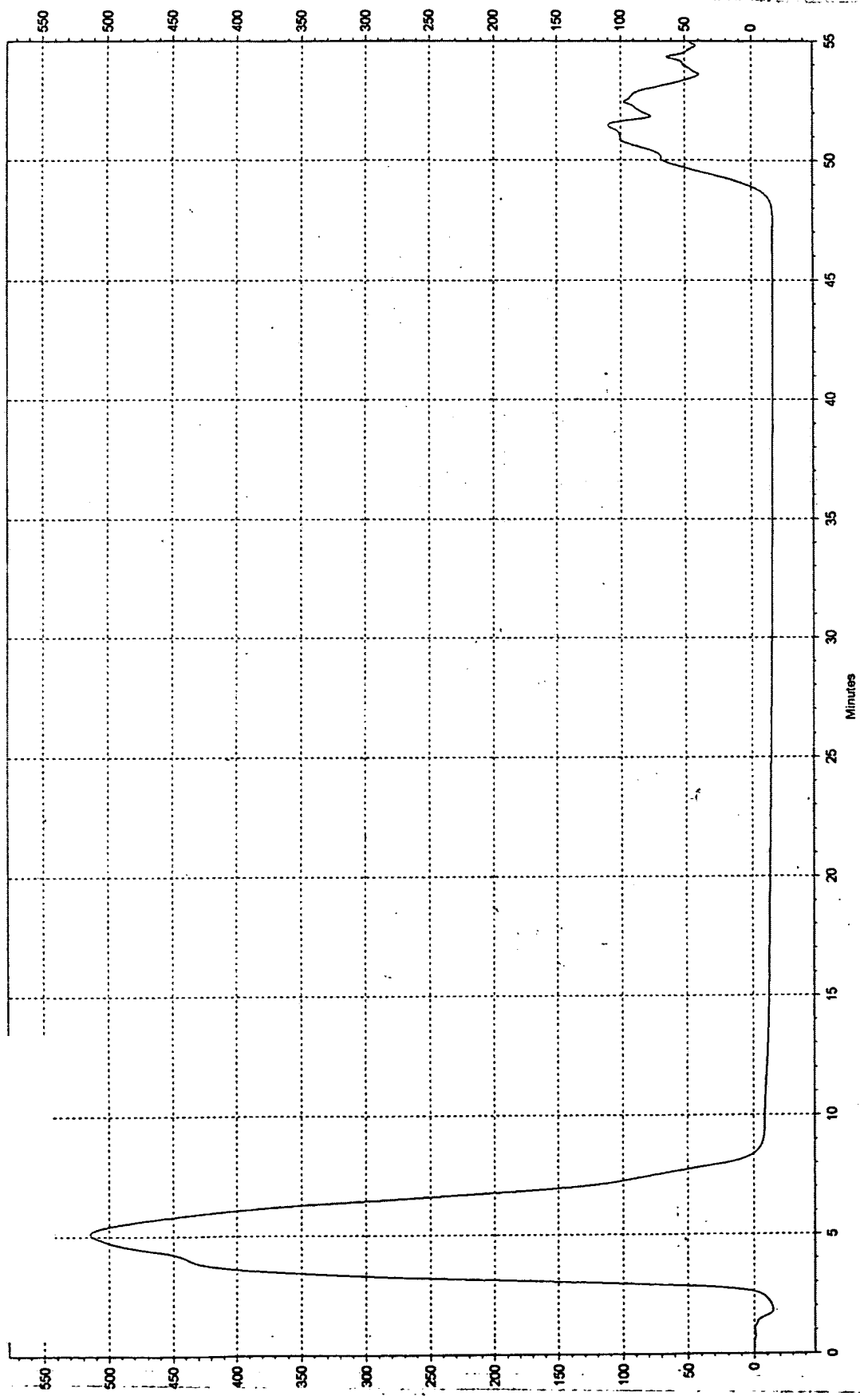


Figure 27

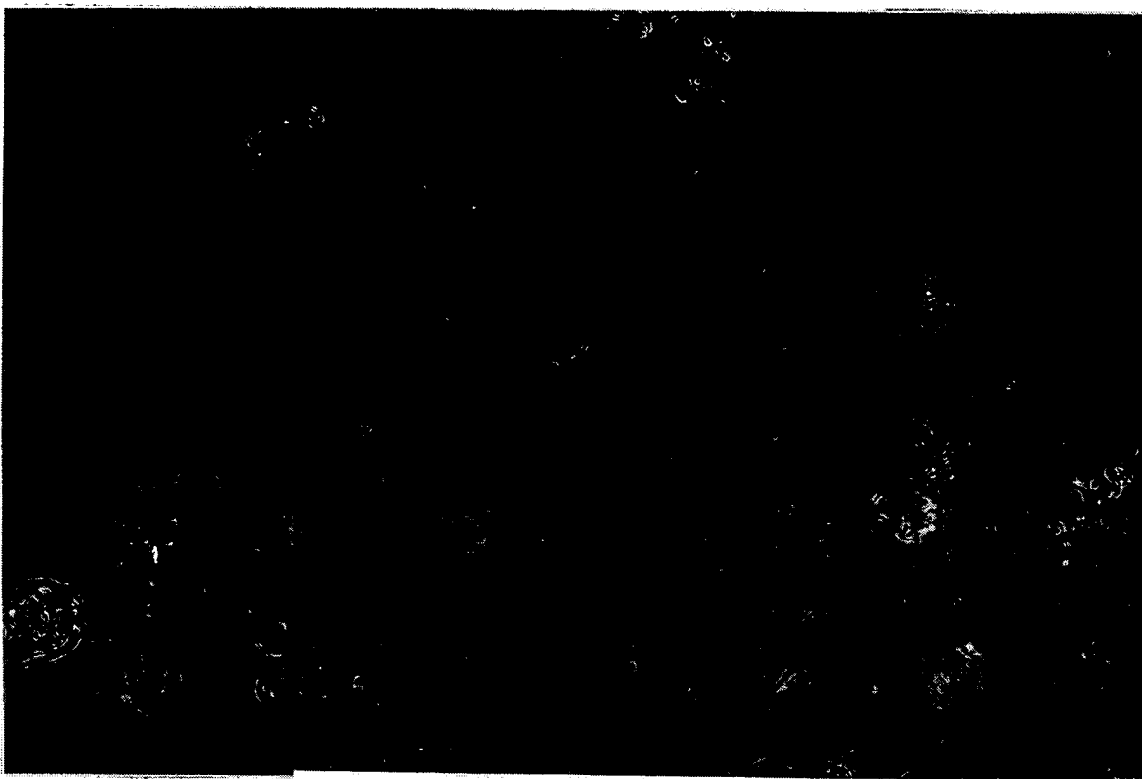


Figure 28

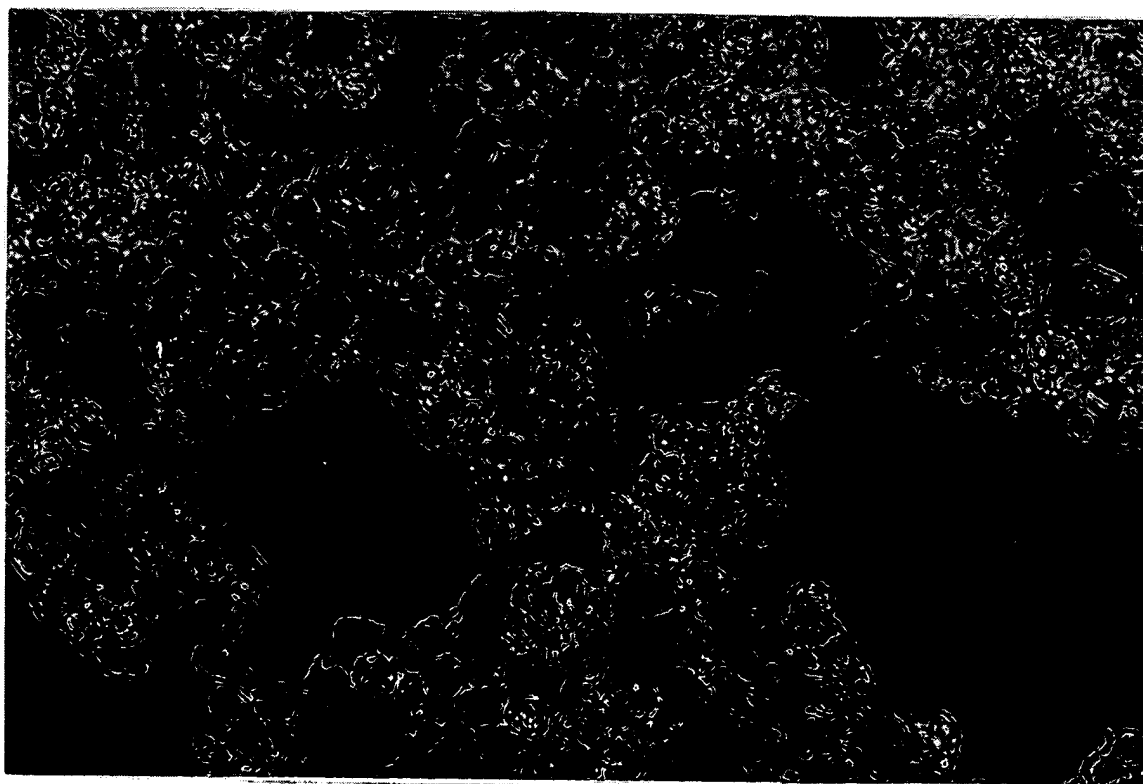


Figure 29



Figure 30

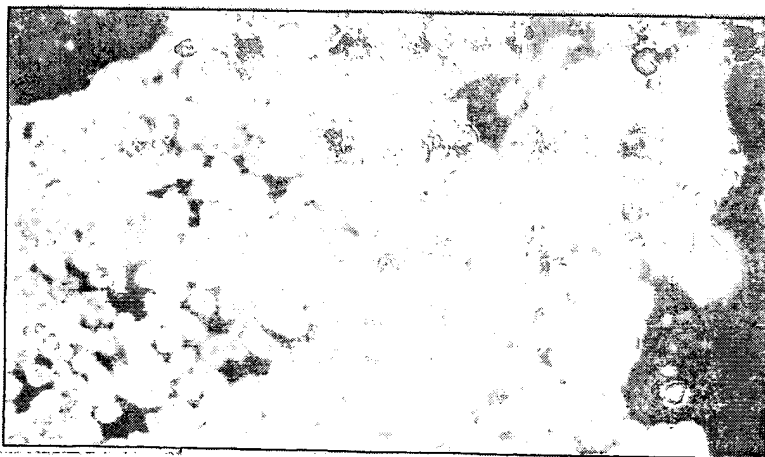


Figure 31

Figure 32

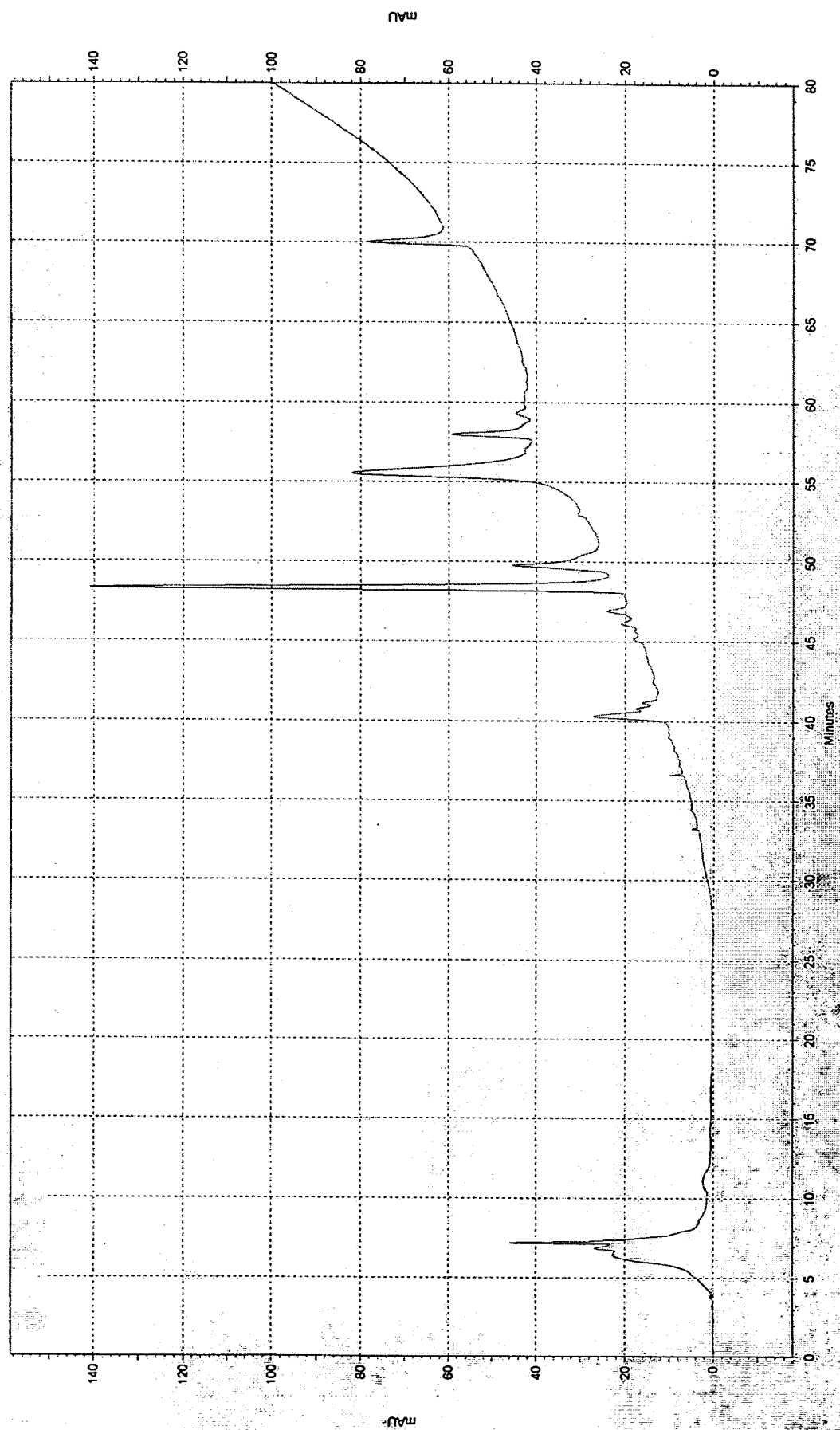


Figure 33

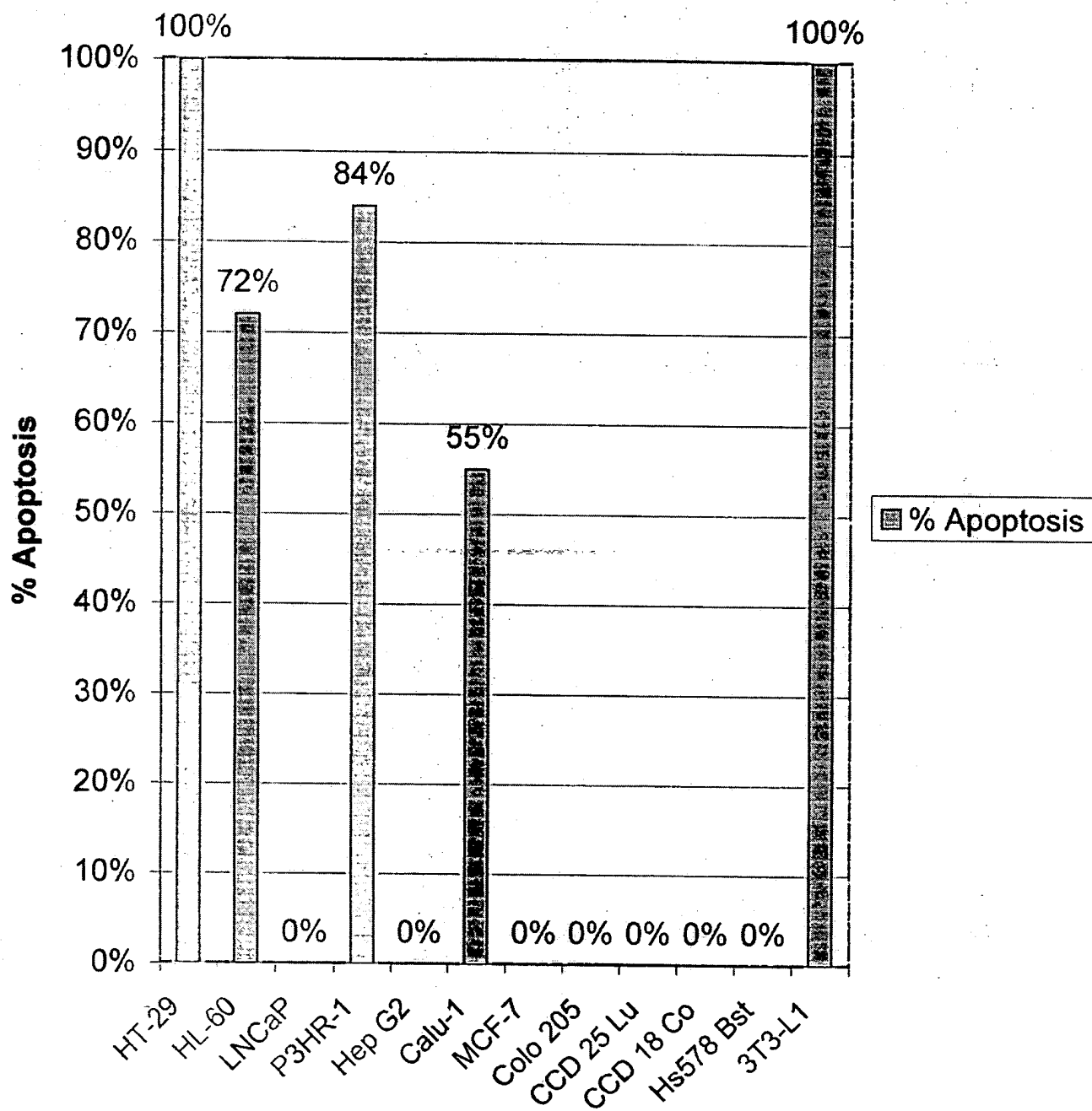
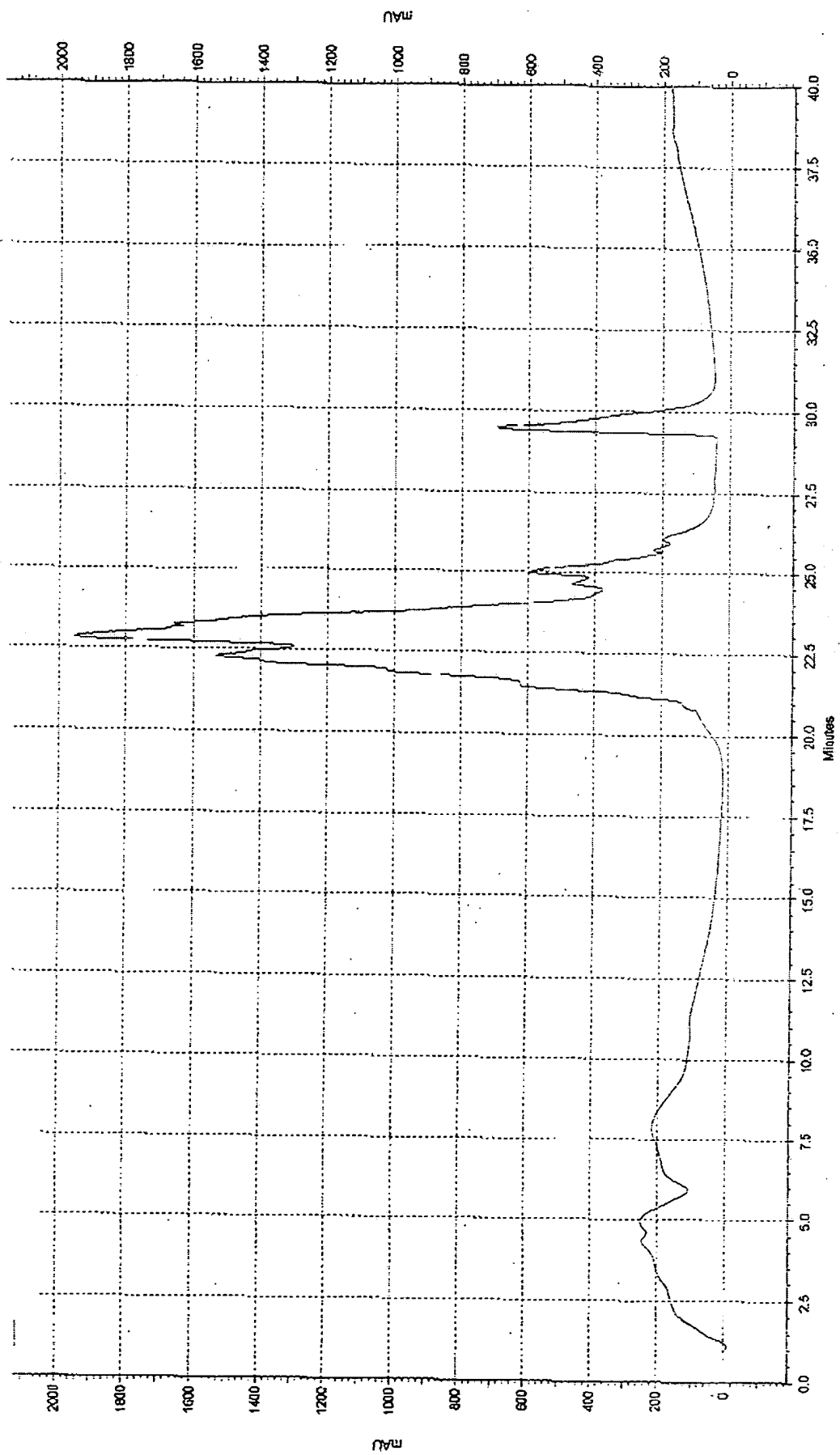


Figure 34



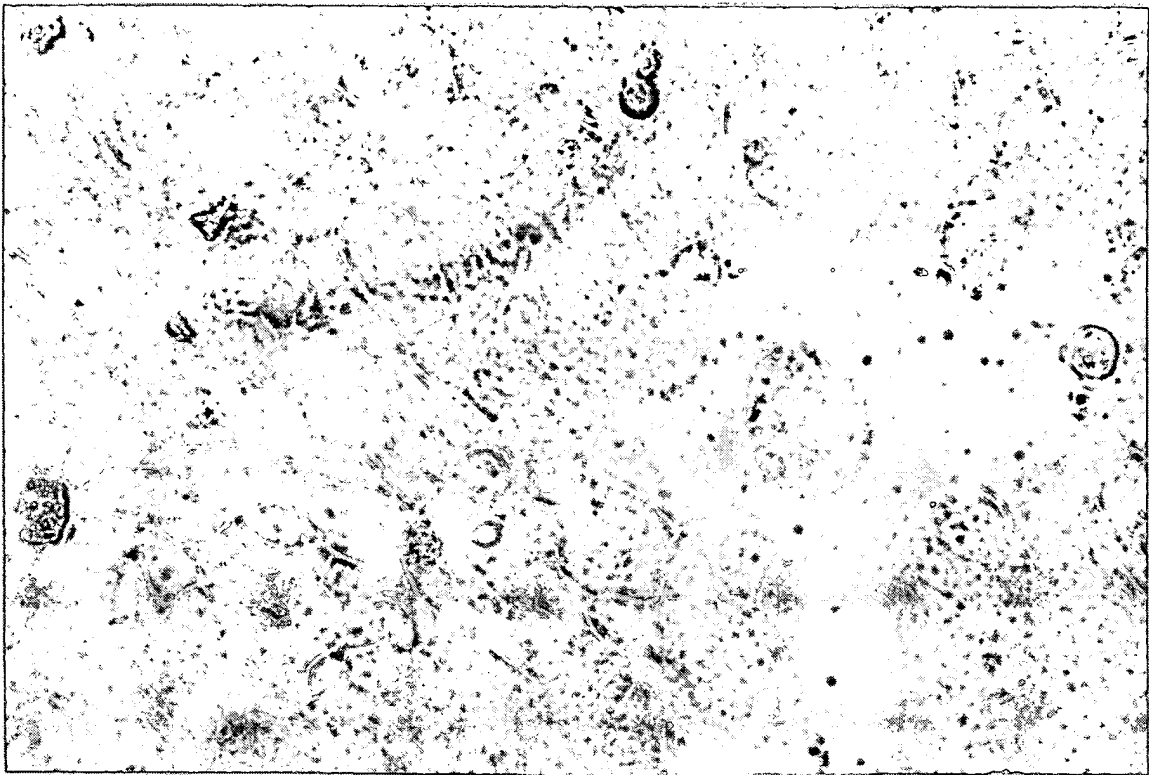


Figure 35

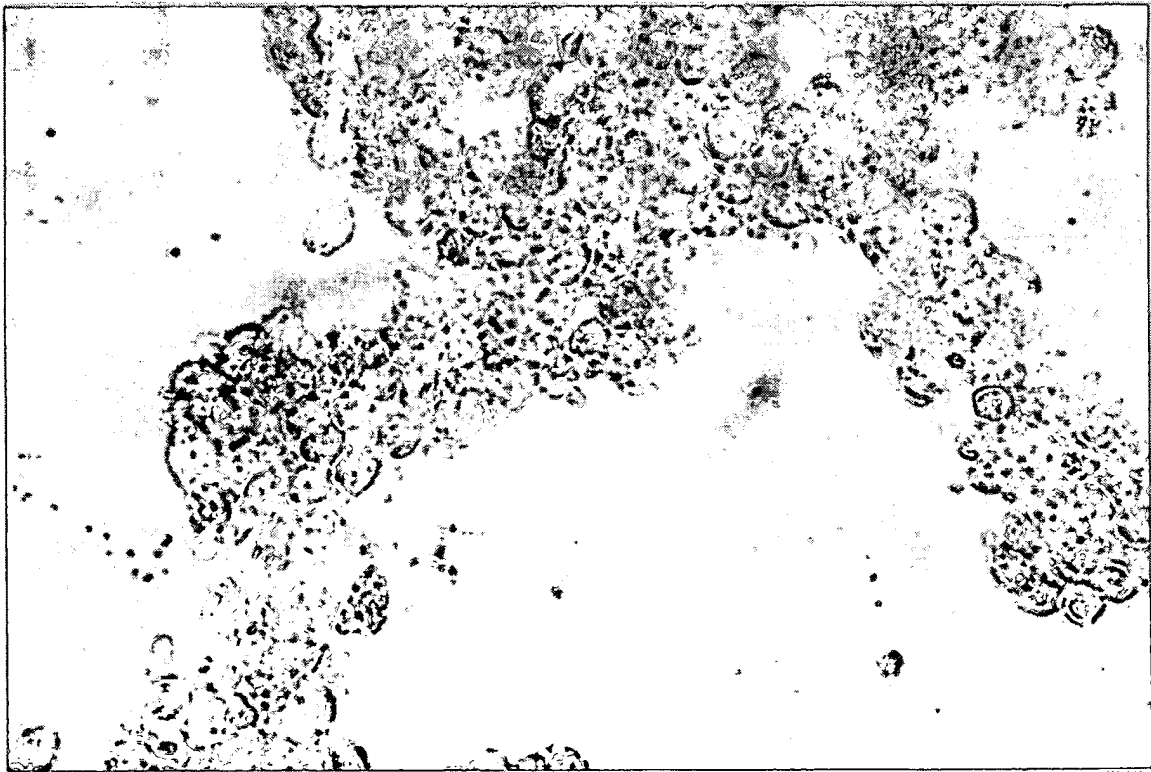


Figure 36